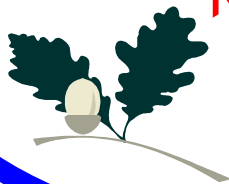


# BIOCHEMISTRY AND MOLECULAR BIOLOGY



# NOTES

Labor Day

Vol 12, No. 6

September, 1999

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## Change of Address

If you participate in the pre-tax reimbursement of health care expenses and/or dependent care expenses, you need to know that the Nyhart Company's phone number and address shown on the claim forms is no longer correct. The new address and phone number are:

Spending Account Claims  
P.O. Box 80208  
Indianapolis, IN 46280-0208  
Tel: 317-803-7700  
Fax: 317-803-7891

Congratulations to **Mark Goebel**, (pictured above on the right), who has been named Graduate Advisor for the department. Mark is shown with **Bob Harris** (center) and **Peter Roach** (left) at the reception given for Peter in appreciation for his service as Graduate Advisor since 1988 and for Mark to celebrate the beginning of his tenure as Graduate Advisor.

## Reminder-Reminder

We're having our family picture taken on **Wednesday, September 8, 1999 at 1:15 pm.** Please join us on the steps at the West side of the new section of Medical Science building (the new main entrance, where the circle is). Don't forget to bring your smile!



## Congratulations!

**Kristin T. Chun** has been awarded a 3-year grant from the American Heart Association Midwest Affiliate entitled *Analysis of Cell Proliferation Regulation During Heart Development*.

**"Citation searching and related records searching: a workshop for researchers"** is the title of a workshop to be held on Thursday, Sept. 2 at Lilly Library, lower level, from 1:30 to 3:00 pm. See <http://www.medlib.iupui.edu/monitor/#WOS> or contact Jim Morgan [@iupui.edu](mailto:@iupui.edu) for information.

## New Faces in Biochemistry

The department is pleased to welcome the following people to the family. (*We'll bring you the new students in next month's issue.*)

- Ms. Marcella Steele** is a lab assistant in Anna DePaoli-Roach's lab.
- Ms. Jeanette McClintick** is a lab assistant in Howard Edenberg's lab.
- Scott Armstrong** is a research technician in Sung-Hee Lee's lab.
- David Pleiss** is a lab assistant in Mark Goebel's lab.

# August Seminars

## Biochemistry Seminars Mondays 4 pm, MS 326

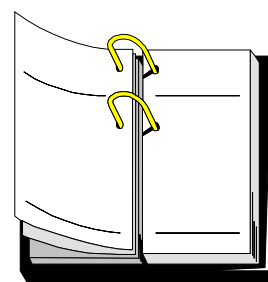
- 9/13 **Dr. Ronald C. Wek**,  
Biochemistry & Molecular  
Biology, IUSM; "Transla-  
tional control by eIF-2  
kinases in response to  
cellular stress".
- 9/20 **Dr. Yu-Chung Yang**,  
Biochemistry & Molecular  
Biology, IUSM; "Identifica-  
tion and characterization of  
new cytokine inducible  
transcription factor  
MRG1".
- 9/27 **Dr. Arthur L. Haas**,  
Professor of Biochemistry,  
Medical College of Wiscon-  
sin, Milwaukee;  
"ISG15/UCRP, a ubiquitin-  
like protein required for  
type 1 interferon signaling".
- 9/28 **Melissa C. Green**,  
Biochemistry & Molecular  
Biology, IUSM; "The role  
of mouse pelle-like kinase  
in the interleukin-1 and  
tumor necrosis factor  
signaling pathways".  
**Tuesday, 9:00 am.**  
**Cancer Research Insti-  
tute Auditorium 101.**

## Other Seminars of Interest

- 9/1 4:00 p.m. Targeting Iron-  
Dependent Tumor Cell  
Growth with Gallium. Basic  
Mechanisms of Cytotoxicity  
and Drug Resistance.  
**Christopher Chitambar,**  
**M.D.**, Dept. of Medicine,  
Medical College of Wiscon-  
sin; Milwaukee, WI. Cancer  
Research Institute Auditor-  
ium 101.
- 9/3 12:00 noon. Insulin Resis-  
tance and Endothelial  
Function. Implications for  
Macrovascular Disease.  
**Alain D. Baron, M.D.**,  
Dept. of Medicine, Div. of  
Endocrinology and Metabo-  
lism, IUSM. Medical Sci-  
ence 326.
- 9/29 4:0 p.m. The Regulation and  
Role of Indoleamine 2,3  
Dioxygenase (IDO) in the  
Interferon and Immune  
Response. **Milton Taylor,**  
**Ph.D.**, Dept. of Biology,  
Indiana University;  
Bloomington. Cancer  
Research Institute Auditor-  
ium 101.

## Dean's Office Deadlines - Sept.

- 9/16 March of Dimes Birth  
Defects Foundation
- 9/10 NIH New research (R)  
Program Projects  
Committed continuations
- 9/10 American Lung Assn.
- 9/10 American Diabetes Assn.  
Mentor-based post-doctoral  
fellowships
- 9/10 Indiana State Dept of Health  
Block grant program



## Important dates

- 9/1 **NIH Committed Con-  
tinuations**
- 9/1 **Juvenile Diabetes Fdn.**
- 9/6 **LABOR DAY**
- 9/15 **Cancer Research Fdn.**
- 9/30 **March of Dimes**
- 10/1 NIH New Research  
Grants, FIRST and  
Career Dev. Awards,  
Program Project &  
Center Grants
- 10/15 American Diabetes Assn.
- 10/15 American Cancer Society
- 10/2 **BIOCHEM RETREAT**
- 10/25 American Heart Assn. -  
Indiana Affiliate - due in  
Dean's Office
- 11/1 NIH competing renewals,  
revised grants
- 11/25 THANKSGIVING
- 12/14 Finals begin
- 12/20 Finals end
- 12/25 MERRY CHRISTMAS
- 1/1/00 HAPPY NEW CEN-  
TURY!
- 1/10 Classes begin

## Biochemistry Student Seminars Wednesdays, 12 Noon, MS A506

- 9/8 **Lin Li**
- 9/15 **Jeffrey Benson**
- 9/22 **Chunmei Zhao**
- 9/29 **Melissa Limp-Foster**



## Recent Publications

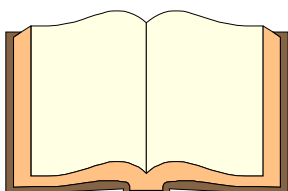
Stone, C.L., Jipping, M.B., Owusu-Dekyi, K., **Hurley, T.D., Li, T.-K. and Bosron, W.F.** (1999) The pH-dependent binding of NADH and subsequent enzyme isomerization of human liver  $\beta_3\beta_3$  alcohol dehydrogenase. *Biochemistry*. 38:5829-5835.

**Zhang, J., Burnell, J.C., Dumual, N. and Bosron, W.F.**, (1999) Binding and hydrolysis of meperidine by human liver carboxylesterase hCE-1. *J. Pharmacol. Exp. Therap.* 290:314-318.

**Lawrence A. Quilliam, Ariel F. Castro, Kelley Rogers-Graham, Carol B. Martin, Channing J. Der, and Chen Bi** (1999) M-Ras/R-Ras3, a transforming Ras protein regulated by Sos1, GRF1 and p120 GAP, interacts with the putative Ras effector AF6. *J. Biol. Chem.* 274, 23850-23857.

**Kent Christopherson, II, Zacharie Brahmi, and Robert Hromas** (1999) Regulation of naive fetal T-cell migration by the chemokines Exodus-2 and Exodus-3. *Immunology Letters* 69, 269-273.

**Cheng-Kui Qu, Wen-Mei Yu, Bragio Azzarelli, and Gen-Sheng Feng** (1999) Genetic evidence that Shp-2 tyrosine phosphatase is a signal enhancer of the epidermal growth factor receptor in mammals. *PNAS, AUSA* 96, 8528-8533



## Medical Science Addition Water Supply

Testing of the water in the new Medical Science Addition has revealed an elevated level for copper. Sample analysis determined the water supply of sinks and drinking fountains has a copper concentration of up to 2.8 parts per million (ppm). Testing shows that the copper concentration usually drops to less than 0.5 ppm after letting the water run for 5 minutes. The high level of copper is attributed to the new copper pipes that supply the water. The copper level is expected to drop as the pipes age. The Indianapolis Water Company states that this is a normal condition often found in new buildings.

The US EPA has established a level of 1.3 ppm as a safe level for copper in drinking water. Due to the elevated level that we are currently experiencing, the IUPUI Department of Environmental Health and Safety has recommended that the water fountains in the Medical Science Addition be temporarily taken out-of-service. This is being done as a precautionary measure since there are some health effects associated with elevated levels of copper.

Copper concentrations of 1.0 ppm can cause the water to have a metallic taste. According to the US EPA, copper is an essential

nutrient; but at high doses it has been shown to cause stomach and intestinal distress. Long term exposure to high doses may lead to liver and kidney damage. (EPA does not define "high doses"). Persons with Wilson's disease may be at a higher risk of health effects due to copper than the general public.

Testing of the old Medical Science Building's water has determined it meets EPA's standard. While the fountains are out-of-service in the Addition, people are asked to use the water in the Old Medical Science Building for all purposes that result in the water being ingested. This includes making coffee, tea or other similar drinks. As soon as testing indicates the concentration of copper has dropped to an acceptable level, the drinking fountains will be put back in-service and notice given to occupants.

Campus Facility Services Zone Manager Bret Horton (278-1622) is available to answer questions regarding the building's water supply. Rich Strong of Environmental Health and Safety (274-1388) is available to answer any health related questions and encourages anyone who may have concerns to contact him.

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### From the Science papers of fifth and sixth graders:

- > A city purifies its water supply by filtering the water and then forcing it through an aviator.
- > The four seasons are salt, pepper, mustard and vinegar.
- > Thunder is a rich source of loudness.
- > One of the main causes of dust is janitors.
- > Vacuums are nothings. We only mention them to let them know we know they are there.
- > The spinal column is a long bunch of bones. The head sits on the top and you sit on the bottom.